

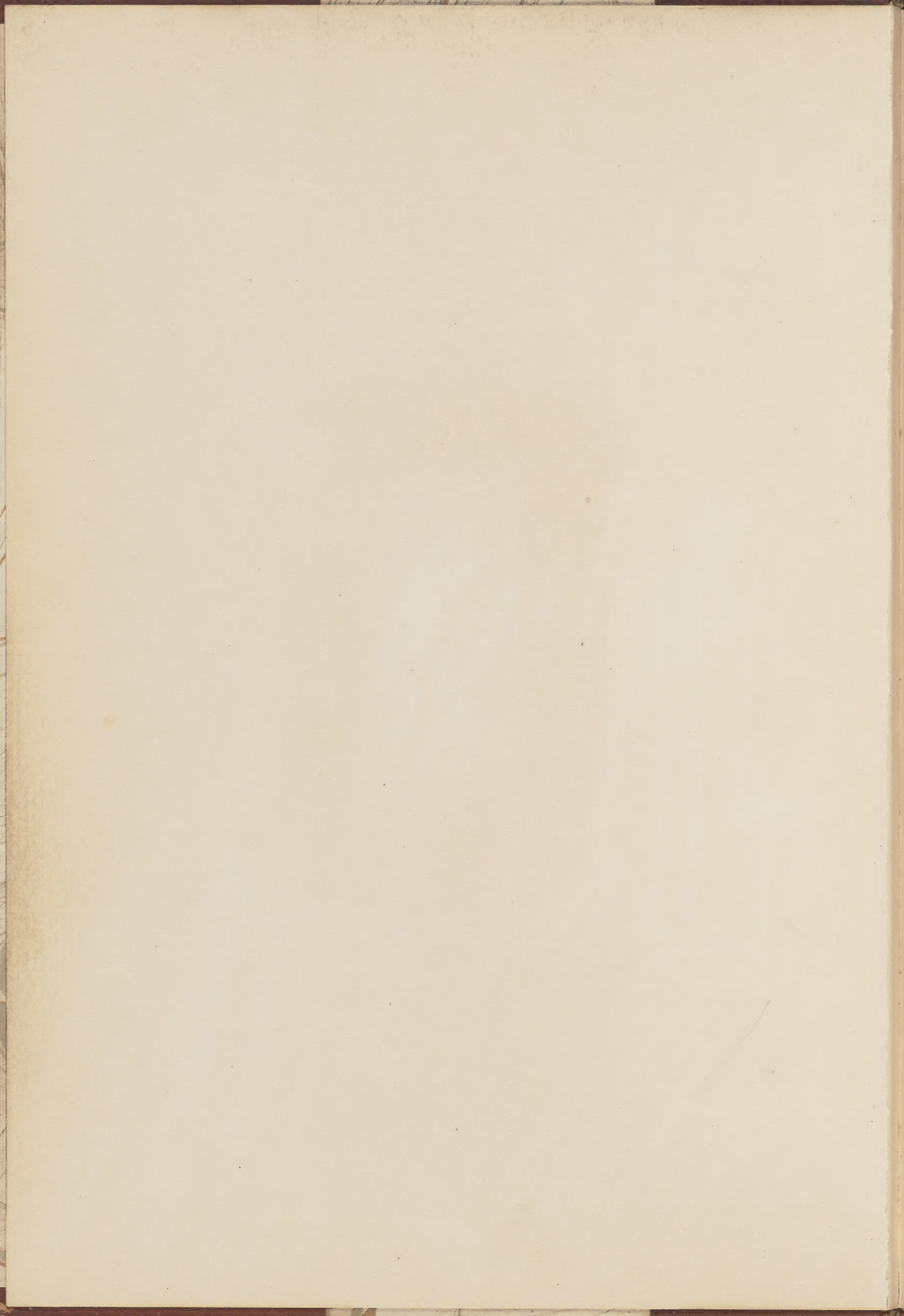
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Ars Numerandi, c. Colquhoun, Ulrich Zell, c. 1482:2

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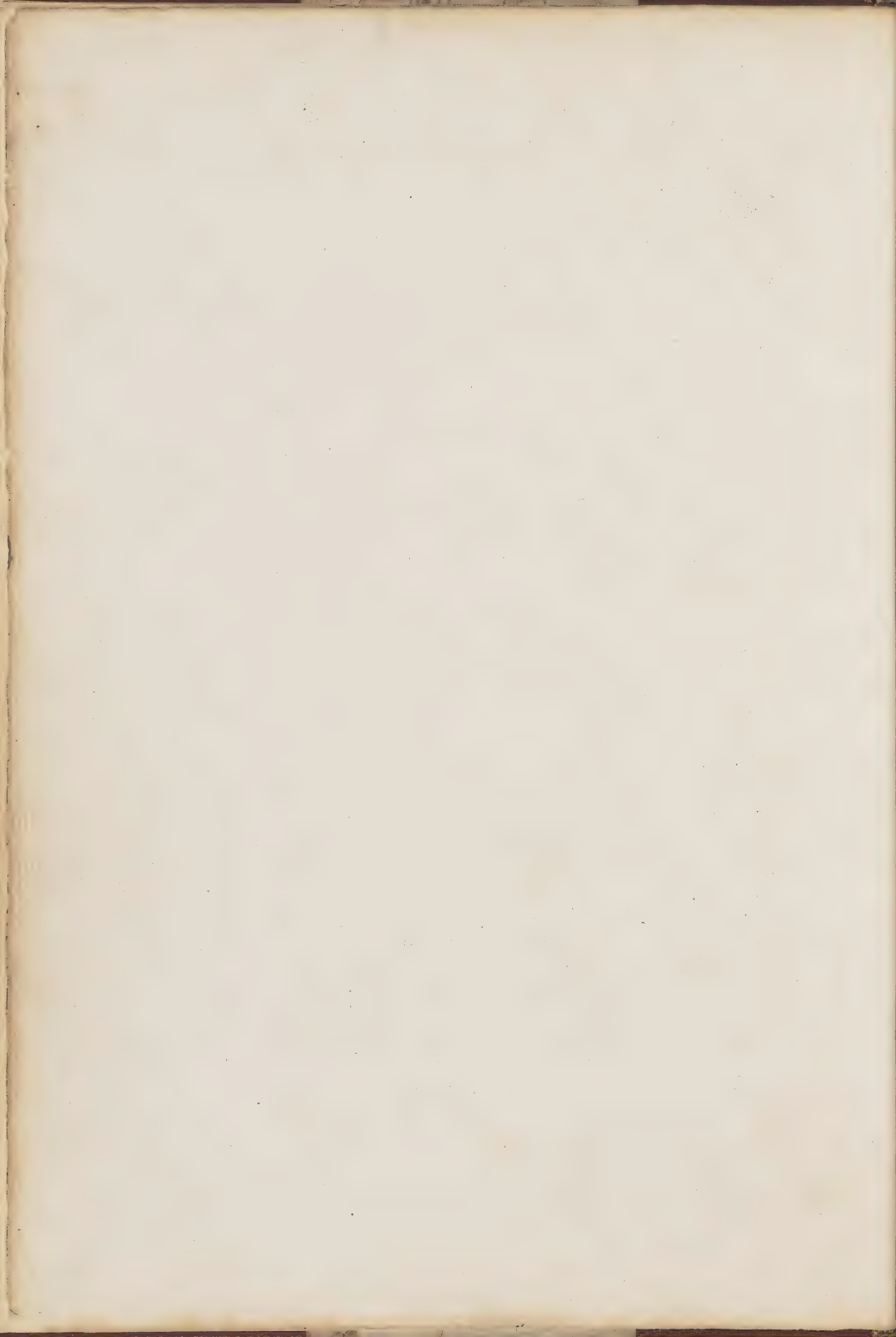








Δ2.Β. κύριος. και



Ars numerandi.

Incipit cōpendiosus tractatulus quīn-
tupliciu dīōnū numeāliū in quo docet
luculēt quō ordiant variātur oponūt
et abīnuicem deriuātur dictōnes nume-
rales.

¶ Actionū numeros importātū qdā dīcū-
tur cardinales. qdā pōtēales. qdā distri-
butiue siue dīspōitiue. qdā ordiales. a qdā
multiplicatiue siue adūbiales. Et notā
dū q numeri diuersis dictionib⁹ significāt a ex
varia signi manerie cōtrahūt int se dīntiā et
diūsitatē ut patet. De his aut dīōnib⁹ p or-
dinē est dicēdū. Et priō de cardinalib⁹ q dīcūtur
iō cardiales. qz sicut ostiū vti ēcā cardinē. et
inmīt eis ita dīōnes aliē nūales vtiūtur a re-
plicātur ēcā istas Vel dīcūt cardinales qsi pī-
cipales. qz dīōnes aliē nūales ab istis hnt ori-
ginē Vel dīcūt qsi pīcipales qz pīcipalē signi-
fīcāt. Et sciēdū q duplices sūt dīōes cardina-
les: qdā s. cōcretē et quedā abstrētē De cōcretē
aut cardinalib⁹ qz de ipis aliē deriuant. Primo ē
vdm que dīōnes sic pcedūt numerādo Vnus
duo. tres. quattuor. qñq. sex. septē. octo. nouē
decē. vndē. duodē. tredecē. quattuordecē. qñdecē
sedē. l. sesdecē. a nūq. sexdecē p x. decēseptē. a
non debz interpoi hec dīctio et n̄ sint due dīōes
decēocto. decēnouem. Viginti. vigintiun⁹. vīgī-
tiduo. a sic usq; ad triginta suo modo. Trigin-
ta. trigintaun⁹. trigintaduo. a sic suo modo de
alijs. Quadraginta. Quinquaginta. Sexagita.
Septuaginta. Octoginta. Nonaginta. Centū.
centiun⁹. cētūduo. a sic suo mō usq; ducētos.
Ducēti. te. ta. ducētiun⁹. ducētiduo. a vltēri⁹

Quare pme
numerales
dīōes dīcūt
cardinales.

Duplicia sūt
cardinalia.

p cōcretā
noīa nūalia
sic numerat.

Ars nūmerādi.

De positōe
nominū car
dinalium.

De dedina
tione noīm
numeratiu;
cardinaliū.

De alijs sūm mō. Tricenti. Quadringenti. Quingenti.
Sexcenti ut sexcenti. Septingenti. Octingenti. Nongenti
vel nungenti. Mille millesimū millesimo. a sic suo
mō vsq; ad duo milia. vñ p; q; millesimo centies
to gintanoue dicat vna dictio Sequitur d; p; dic
tarū dictionū positōe differere ut ipse magis pa
tesciant. Circa quā sciendū est q; ab vnus vsq;
ad decem inclusiue sūt simplices figure. Et a decē
vsq; ad centū exclusiue sūt compositę figure. Vñ
decem enī ponit ab vnus a decē. a^c vsq; ad vi
ginti exclusiue suo^o Viginti autē componi² a bis
mutata b in v. et a gētos qd est decē. a viginti
unū opo² a viginti a vnū. a^c vsq; ad triginta ex
clusiue suo mō. Triginta vñ compo² a tris qd ē
tres a gētos qd est decē Et triginta unū opo²
a triginta et vnus Et ad similitudinē p; dictorū in
telligēde sunt similes cōpositōnes vsq; ad centū
exclusiue. Centū autē a mille sūt simplices figure
Et inter centū; a mille sunt cōpositę figure. vt
quadringenti cōpositū est a quattuor a centū
vel a quad; a centū. Et a mille ulterius q; sunt
compositę signē. qd p; similitudinē p; dictorū dñi
dicādū studioso relinquō Sequitur de p; dictarū
dñonū dedinātōne aliquid declarē. Circa quā
sciendū q; ab vnus vsq; ad q̄ttuor exclusiue sunt
dediabiles Et a q̄ttuor vsq; ad decē inclusiue sūt
indēdinabiles oīs generis a plurali numeri. Et
a decē vsq; ad centū exclusiue si ponant ex duo
bus corruptis vt quadringenta. vel ex duob; inte
gris indēdinabilib; ut decē septē; semp sūt inde
dinabiles Si vñ ponant ex duob; integris quā
alter sit dēdiabile a alter indēdiabile; ex pte de
diabilis dēdian² a n̄ ex pte alii; ut viginti unū qd
tū dedian² ex pte alterius in plati vt Et pte hi vi
gitiunū he vigitiuna hec vigitiunū gūo bo; a

har a bon vigitiūm⁹ vñō his vigitiūno cē.
 sic cōst in sūb pcedēdū est Et nō q̄ vigitiū duo
 debz hīc acutū accētū in anpenultia ut p̄ ex hu
 gu^o Et a cētū usq̄ ad ducētī sunt dōcōnes inde
 clīab les. ut cētū decē. cētū vigiti Excep̄t illis q̄
 dponū² ab vn⁹ duo l̄ tres ip̄s intēgs manētib⁹
 Ducenti vñō a relique siles dōcōes vsq̄ ad mille
 dedinā² p̄t a mobile. ut p̄t hī ducētī be ducēte
 hī ducēta sicut magist̄ musa a scamnū in plati
 et tricētī quadrigētī a siles dedīabūtur. Vñ
 trahit q̄ tricētī un⁹ dedīa² ex vñq̄ pte plurale
 et siles dōcōes dpositē ex duob⁹ dedīabib⁹ siles
 suo mō Mille vñō ē in dīnabile oīs gnīs a tñ
 plal numeri Et dīt a milia. nā mille copulat
 vnū millenariū: milia vñō plures millenarios
 indefmīate Vñ defmīa² sic. duomilia triami
 lia a sic vltēri⁹ suo mō. Et potest q̄libz istoz
 esse vna orō. a tūc cōstruit sic. duo milia ho
 minū currūt Vel potest esse vna dīctio. a tunc
 cōstruit sic. duomilia hoīes currūt. a licet sit
 neutri generē: iūgit tñ int̄fīctīe cū omni genē
 vñ p̄t dīct duomilia mulieres currūt a^c de alijs
 generib⁹ Et hoc ē ideo: q̄ mille olim erat singl̄e
 a milia suū plale. a^c cōstrueba². mille homi
 nū int̄fīct̄. q̄fī dicere² millenari⁹ hominū int̄fī
 ct̄. mō mille est plalis numeri a oīs generē.
 Vñ contrahit q̄ ab eo cōposita cōstruāt intrā
 fīctīe cū q̄libz genē sicut mille Et milia dedīa²
 p̄t milia miliū milib⁹ Et si q̄ dōcōes cardiales
 sūt dpositē 8 q̄z dedīatōe cā breuī tat̄ n̄ ē men
 tio scāz p̄ similitudinē p̄dictoz cas dīscutēdas
 Equitur nūc videre 8 dōcōs studio s̄mittō
 mib⁹ cardinalib⁹ abstrēctis q̄sūt dōcōes ppeta
 tuz. a sūt iste Vnitas binari⁹ ternari⁹ q̄ternari⁹
 q̄nari⁹ senari⁹ septēari⁹ octōri⁹ nouenari⁹ Denari⁹

Nota bene
 8 genē istoz
 ru; nominū
 numeraliuz

Hic defmī
 na² de cardi
 nalib⁹ ab
 stractis.

Ars numerandi.

vndenari9. duodenari9. tredecenari9. quattuordecenari9
 quindecenari9. sedecenari9. et sedecenari9. denarius septuagenari9
 denarius octogenari9. denarius nouenari9. Vigenari9
 ut vigenari9. Vicenarius vinitas non dicitur propter inco
 sequentiam generis sed loco illi9 dicitur vigenarius funari9
 et vlti9 vigenarius binari9 vigenarius ternari9. a
 vsque ad trigenari9 exclusiue suo modo. et etiam filius
 compositi9 in sequentibus est notanda. Trigenari9. et ter
 nari9. Quadragenari9. Quinquagenari9. Sexagenari9
 Septuagenari9. Octogenari9. Nonagenari9
 Centenari9. Centenarius funari9. Centenarius biari9
 a vlti9 in alijs similes propones se notande. Ducenari9.
 tricentenari9. quingentenari9. quingentenari9
 secentenari9. vel secentenari9. septingentenari9. octi
 gentenarius. nongentenarius. Millenarius millena
 rius funari9 millenarius binarius millenarius ternari9.
 a vlti9 suo. Compositi9 pro dicitur dicitur facit e
 Sunt enim vsque ad denarius inclusiue simplici figure
 et omnes alie sunt compositae figure et decompositae.
 praeter centenarius et millenarius qui sunt sim
 plici figure. Dedimatio vero praedictarum dictionum fa
 ctis est ad cognoscendum. quia omnes sunt sede de
 dicationis et masculini generis propter vinitas quod est
 tercia dedicationis et feni generis. Si etiam dualitas pro
 binarius ponatur: dedimandum est sicut vinitas et
 si qua tertia sunt filia. Et notandum quod praedictarum dic
 tionum quidam dedimant in fine tamen ut vinitas bi
 narius vndenarius vigenarius et similes. Et
 quidam dedimant in duobus locis ut vigenarius biari9
 et similes. Et quidam in tribus locis ut centenarius quinquagenarius funarius.
 Et quedam in quattuor locis ut
 millenarius secentenarius octogenarius funari9. a
 similibus. Et si qui in pluribus locis dedimantur: pro
 similitudine praedictorum facit potest praedecere. Itus
 diosus. Et notandum quod praedicta nomina et eis similia

De figura
 abstractorum
 cardinalium

De deductione
 nominum cardinalium ab
 abstractorum

Ars numerandi.

in us tñiata pñt dedimai adiectie Et significat
re idē qđ ptinēs ad nū; figtū p nomia sñstātia
ipīs in masculo gñe oīno sñtia. vel figñt idē qđ
de tñ nūo exñs. ut binarius a ū. ad binariū
ptinēs vl de binaio existēs.

Dicto 8 cardinalibz; dñm est nūc 8 pōderatibz

His pñmissis : 8 dñomibz pōdeatibz est
v nūc dñm Et sciēdū qđ ille sūt dñones pō

dēales que figñcāt nū; pōderatē cuius
mōi sūt iste Simpl9. duplus tēpl9 qđruptus
qñtupl9secul9 l̄ secul9septuplus octupl9 nō
cupl9 decuplus vñdecuplus duodecupl9 trede
cupl9 qñtuordecupl9 qñdecuplus secul9 l̄ sesde
cuplus decuplusseptupl9 decuplus octupl9 decu
plussiml9 l̄ vicecupl9 l̄ vicecuplus vicecu
plussiml9 l̄ vicecupl9 l̄ vicecuplus vicecu
plus. et vltēius iñ sñtibz sñtis pñpñs suo mō ē
notāda. Trigecupl9 l̄ triccupl9. Quadřgecu
plus Qñq̄gecupl9 Sexagecuplus Septuagecu
plus Octogecupl9 Nonogecupl9. Cēcupl9. cē
tupl9 l̄ cētuplus dupl9. et vltēius pñpñē
do. Ducēcuplus Trecentupl9. Quadřgētuplus
Qñgētuplus Secēcupl9 l̄ secul9 l̄ septigētup
lus Octigētupl9 Nōgētupl9 ul̄ nūgētuplus
Millecuplus millecupl9 l̄ millecuplus
dupl9. et vltēius sñstē cōponēdo Vñ accidēt vt
Millecuplus cētuplus quadřgecuplus nōcuplus
potest dici vna pñ cōposita. nā aliter nō dicēt
sic latine sine cōpla ut videt Cū cōpositōnē
pñdictarū dictioñ ē sciēdū qđ dñones pōderales
sūt cōposite a pñca et pñcedētibz ut simplus a
sñ a pñca. duplus a duo et pñca. tripl9 a tris
qđ est tres a pñca. et vltēius suo mō dñm est
de alijs Excepit illis dñomibz in qñ cōpositōe
iueniūt due dñones pōdeales vt decuplusseptu

De nomibz
pōdeatibz

De figura
dñom pōdera
tiū.

Ars numerādi.

De declinacōe
pondeāliuz.

plus Et tres. vt cētuplusui geuplusimpl9. Et
q̄ttuor. vt millecupluscētuplusq̄h̄q̄geuplustri
pl9 Quorū om̄iū facilt potest patere cōposi^o a de
clinacō p similitudinē p̄dictorū. et iō cā breuitatē
de talibz a q̄ plures dāones h̄nt in sui cōpositōe
q̄ quattuor ad p̄ns sup sedeo Itē dedinacō pō
deratū pz Nā huiusmōi dāones dedinātur ad
modū adiectiuorū in us ī a a in ū t̄minatorū. ut
simpl9 a ū. dupl9 a ū a sic de alijs. Vñ tñ cōfi
derādū q̄ hmōi dāones cōposite ex duabus vel
pluibz dāibz pōderālibz: dedinānt ex pte cuiusli
bet dāis pōderālis Vñ accidit ut h̄ dāo cōposita
millecuplusq̄dīgētuplusq̄dīgēcuplusq̄ritupl9
in q̄ttuor locis dedinacō. nā ex pte cuiuslibz pōde
ralis dāis ex q̄ cōponit^r accipit inflexionez.

Sequitur de distributis sū dispartitiuis.

Hic definiti
na² de distri
butiuis.

Itē de dāibz pōderālibz: cōsequēter dicō
dū est nunc de distributis l̄ dispartitiuis
q̄ dicū^r p̄ndipate significare distributōz: ēca
aliq̄ distributa p pares nūos. Et sūt iste dāes
Singuli. bini. trim. q̄termi. q̄mi. semi. septemi. oc
tem. nouemi. deni. vndemi. duo dmi. tre dmi. q̄ttu
ordemi. q̄ndemi. sedemi ul̄ ses dmi. deni septemi. de
mi octemi. deni nouemi. Vigemi l̄ vicemi. vigemi
singuli l̄ vicē singl̄. vicē bini. vicē trim. et
sic vlter⁹ cōfiliis cōposi^o de filiibz ē notanda Trege
mi ul̄ tre dmi Quadrigēmi Quinq̄gēmi Sexage
mi Septuagēmi Octogēmi Nonagēmi Centēmi
centēmi singuli centēmi bini centēmi termi. et^c vl
ter⁹ suo modo vsq̄ ducentēmi. Ducentēmi. Tu
centēmi Quadringētem Quingētem Secento
mi Septingētem Octingētem Nonagētem ul̄
nūgētem. Millem millem singl̄ millem bini
et^c vlter⁹ similit̄ cōposi^o est notanda suo mō
Et notandū q̄ q̄libet dictio distributiua siue

dispositiua dicitur ad min⁹ de his tot q̄t cōtinētur
sub suo nūo. Vñ Cētem dicitur p̄pue ad min⁹ de
ducentē. est em̄ sensus Isti homines incedunt
centem ⁊ centū simul et centū. q̄d nō potest cē
verū nisi ad min⁹ sint ducenti. a^c de alijs simi
lib⁹ est dicendū suo mō Composi^o autē p̄dicta
rū dēnū facilliter potest cognosci. s̄ em̄ vsq̄ ad
dēni inclusiue simplicis figure. et vlteri⁹ composi
fite l^r decompositē p̄tē centem amillēm q̄ sunt
simplicis figure Dedina^o dō p̄dictarū dictōnū
sac̄ nota est Dedina^o em̄ mobilē a adiectiue
sicut lect⁹ a ū. a p̄pue in plurali Sed q̄nq̄ inue
niūtur etiā in singulari a tūc accipiūtur p̄ suis
p̄ncipalib⁹ ipsoe. ut bina cōsona ⁊ due cō
sonātes. et imprope q̄nq̄ capiūtur in plurali
vt vidi binos homines ⁊ duos hoīes Et idē de
talib⁹ nomībus s̄ilib⁹ huic nomini bin⁹ suo mō
dicendū est Et ille dictiones q̄ componūtur ex
plurib⁹ dedinabilib⁹: ex p̄te cuiuslib⁹ dedinabil^r
inflectūtur. vt deni septem. cētem viginti singl^r
millenonō gētem nonageminouem. a cōsimiles
q̄d industrie p̄lectorē diiudicādū relinquo.

Sequitur de numerabilib⁹ ordinalib⁹

Expedito de nomīnib⁹ distributiuis siue
dispositiuis: consequēter exeq̄ndū est 8 or
dinalibus q̄ p̄ncipalit^r dicūtur ordinem
significare. significāt em̄ sua significata cōnotādo
ipā esse sub quodā ordine. Et sūt iste. Prim⁹
secūd⁹ tertius quartus quint⁹ sextus septim⁹
octauus non⁹ decimus vndecimus duodecimus
tredecimus quattuordecimus l^r quētuordecim⁹ q̄ndē
am⁹ vl^r quintusdecim⁹ sedecim⁹ vel sesdecimus
vel septusdecim⁹ decimusseptim⁹ decimus octau⁹
decimus non⁹ Vigestim⁹ l^r vicecim⁹ vigesimus p̄
mus vl^r vicecim⁹ primus vigesimussecūd⁹ t̄c

De figurā
numeraliū
distributiōn.

De declia^o
distributiōn

De numera
lib⁹ ordinalib⁹
libus.

Ars numeriādi.

et sic vlti⁹ suo mō in fili⁹z fili⁹z cōpositio est no-
tanda. Trigēsimus & tricēsimus. q̄dēgēsimus
quinq̄gēsimus. sexagēsim⁹. septuagēsim⁹. oc-
togēsimus. nōgēsim⁹. Cētesim⁹ cētesimuspri-
mus centēsimussc⁸s et sic vlti⁹ componēdo. du-
cētesimus. tēcentēsim⁹. q̄drīgētesimus. q̄ngēte-
sim⁹. sēcētesimus & sēsētesimus. septingētesim⁹
octingētesimus. nōgētesimus & nūgētesimus
Millesimus millesimuspri⁹ millesimussc⁸s
et sic vlti⁹ suo mō Cōpositiō vō p̄dictay dā^m
facil^r est notitie. Sūt enī vsq̄ ad decim⁹ idusue
simpli^r figure. a vlti⁹ cōposite v^r dēcōposite
p̄et cētesimus a millesimus q̄ sunt simpli^r sic
q̄d p se dscutiet lector industriofus Dedina^o
p̄dictay dā^m facil^r cōgscat Dedinatur enī mo-
bile i vtroq̄ nūo sicut lectus a ū. B tñ retēto q̄
huiusmōi dāones cōposite ex dēdiablibz inflec-
tūtur ex pte cuiuslibz dēdiabil^r. vt vice⁹simuspri-
mus. cētesimusquadīgēsimussc⁸s. millesimus
tētesimusquingēsimusq̄t⁹ et filies. q̄d p lec-
torē iduste dēnēd dimitto p silitudinē p̄dēoy.

De nūalibz multiplicatiuis q̄ sūt adūbia.

Erminato de dāomibz ordialibz: iā res-

tat dēmiare & multiplicatis q̄ dicūt fig-

nificare multiplicatōnē ēca significatōes

p̄dictay dā^m nūalū. vt dicēdo. ter q̄ttuor ho-
mies currūt. ter binarius ē senarius. iste fuit ter
simpl⁹. isti hoies iueūt ter binī. iste fuit & p̄m⁹
et & fili⁹z. Etā vidēt fig^r multiplicatōz ēca
res alias. vt d⁸. ter vidi hoiez. q̄t sui colomie
et & fili⁹z Et sūt iste Semel. bis. ter. quat. quī-
quies. sedes & sepiēs. septies. octies. nomies. de-
cies. vndecies. duodecies. tredecies. q̄ttuordec-
ies. q̄ndecies. sedecies & sēdecies. deciessepties.
q̄d sēdecies a semel si sit cōpositiō. et significat

Cuius figu-
re sūt ordia-
lia nūalia.

Cuius dēdia-
tōis sūt tlia

De multipli-
catiuis q̄ sūt
adūbia nūi

Ars numerandi.

Septuagies si sit apposi^o. nō tamē vide^r q^d p^t eē
 p^pe appositio sū noua impositione. q^d iūstata
 eē tal^r locutio semel semel ul^r semel bis. a sūt
 decies septies improp^a a iūstata eēt locutio.
 decies octies decies nomies Vigies l^r Vicies vi
 gesies semel vigies bis. a sic vlt^r suo mō in
 sūlib⁹. Trigies l^r trices Quadrigies vel q^d
 dragies Quinquagesies l^r q^dngies Sexagesies l^r
 sexages Septuagesies l^r septuagies Octoges
 es l^r octogies Nonagesies l^r nonagies. Centies
 vel centesies h^r raro teste hu^o a sūt ab alijs vt
 Ducenties l^r ducētes a sic vlt^r suo mō Tri
 centies Quadrigētes Quigētes Secētes ul^r
 sescenties Septingētes Octingētes Rogētes
 vel nūgētes. Millies l^r millesies. Cētes cōpo²
 vt centies semel centies bis. a sic vlt^r suo mō
 in sūlib⁹ Cōpositio autē p^dictar⁹ dōnū facit
 p^t cognosci Sūt enī vsq^{ad} decies inclusiue sim
 plic^r figure a vlt^r cōposite l^r decōposite. p^t
 cētes l^r cētesies a millies l^r millesies q^d sūt sim
 plic^r figure. q^d cā breuitatē a facilitatē omitto
 Et nota q^d p^dictē dōnes sūt adūbia: g^r nichil
 de ipsar⁹ dēdātōne stat dicēdū Et h^r d^r dōm
 bus numēalib⁹ dēa diligēter studēti sufficiāt.

De figura
multiplica
tiuorū.

Itē p^dictē q^dntuplices dōes numēales patēt
 in his versibus seq^{nt}ib⁹ 89.

Quītuplic^r forme numer⁹ distinguūt esse
 Cardine. pondere. dist^rbuēs. fil^r ordinis. aduer.
 Dic vnū. simp^lū. bimⁱ. prim⁹ q^d. semel bis.

Opusculū puū de dōib⁹ nūeralib⁹ finit

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|-------|------|-----|
| Jan 1 | 1877 | 1 |
| Feb 1 | 1877 | 2 |
| Mar 1 | 1877 | 3 |
| Apr 1 | 1877 | 4 |
| May 1 | 1877 | 5 |
| Jun 1 | 1877 | 6 |
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| Dec 1 | 1878 | 24 |
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Sred April 22 1895



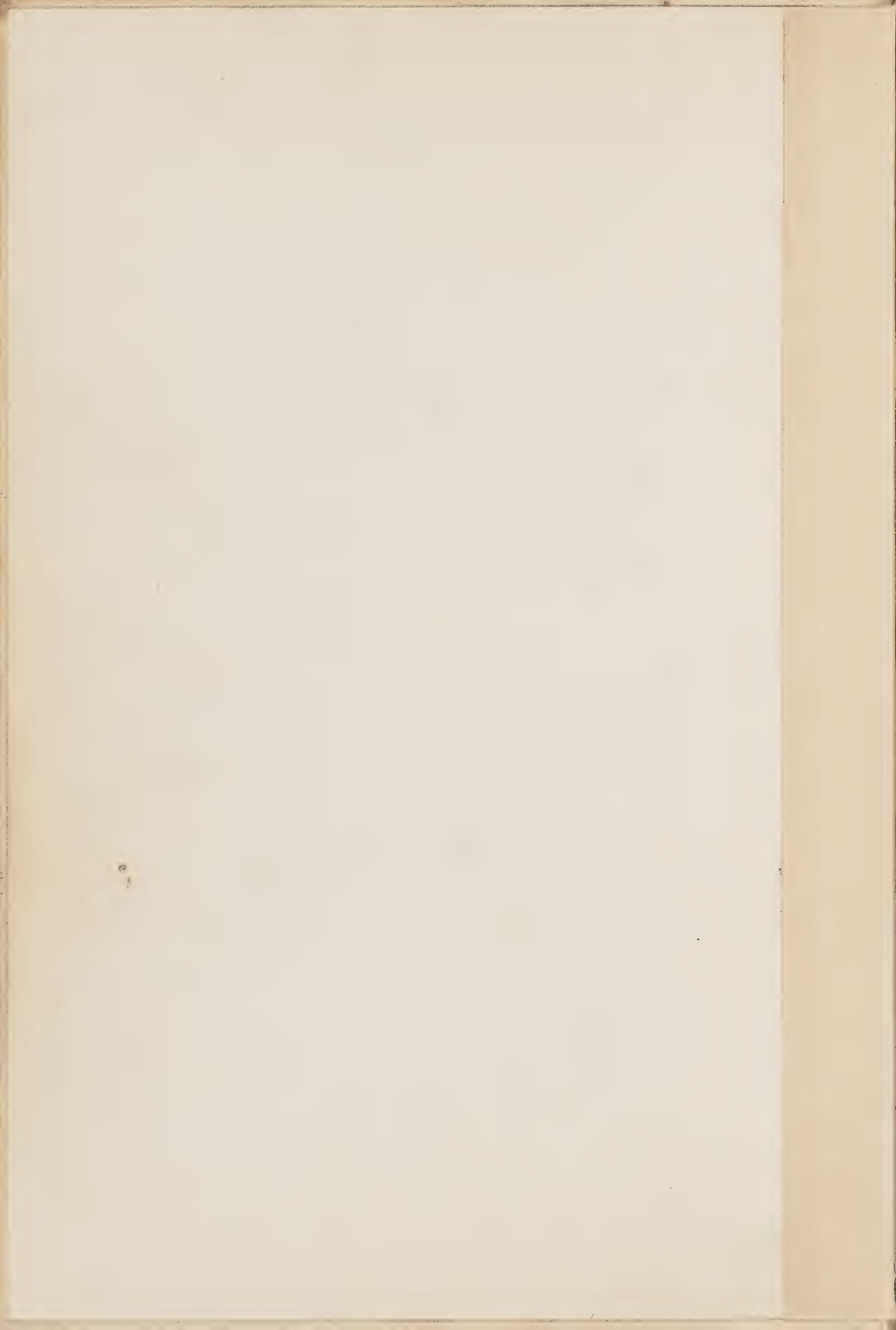
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DODD, MEAD & COMPANY,
PUBLISHERS, BOOKSELLERS AND IMPORTERS,
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FRANK H. DODD.
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CABLE ADDRESS: "DODD, NEW YORK."

New York, June 19, 1895. 189

Mr. George A. Plimpton.
70 Fifth Ave.

Dear Sir:--

We have just received a card from Rosenthal regarding the Fust and Schoeffer imprint purchased for you at the recent sale. We quote exactly, mistakes in spelling and all.

"We beg to ascertain, that the most acquainted and thoroughly informed judge of the Fust and Schoeffer prints, Mr. Falk himself has assured us, that No. 1864 of our Lobris Sale Catalogue "Ars numerandi" is in fact printed by Schoeffer, and that he knows the types quite surely as real Fust & Schoeffer types, giving thus no way to further doubt. With best thanks for passed orders, etc."

We have in stock a little book on the calculation of Church Feasts, lunar cycles, solar cycles, leap years, and the calendar, printed by Tyman Peter Os in Zwolle in 1500. It is interesting for the error in the number of hours in excess of 365 days in the year, having been printed before Pope Gregory reformed the Calendar. There are also some curious rhymes for foretelling the weather from the new moon. The only other copy we can find is in the Library at the Hague. It is not described in Holtrop, the great authority on early Dutch imprints. We will be glad to send it on approval if desired.

Yours very truly,

Dodd, Mead & Company. Per L.S.L.

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